

# SDLP TV UNG

# Owner's Instructions SP50L7HD



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## A Guide to Digital TV

### • What is Digital Television?

Digital television (DTV) is a new way of transmitting high quality video and audio to your TV set. Using DTV, broadcasters can transmit high definition TV (HDTV) images, Dolby digital surround audio, and new services such as multicasting (transmitting more than one program on the same TV channel) and datacasting. Several of these services can be combined into a single digital broadcast.

## **Digital Television Services**

### • Digital Picture Quality

DTV programs are transmitted in two different formats. The first is Standard Definition Television (SDTV) and the second is High Definition Television (HDTV).

- **SDTV** program formats include 480-line interlaced (480i) and 480-line progressive (480p) video. 480i programs are essentially a digital version of our current analog TV programs, while the 480p format offers improved image detail over 480i. Some 480p programs are broadcast in widescreen and are comparable to progressive-scan DVD movies in image quality.
- **HDTV** program formats include 1080-line interlaced (1080i) and 720-line progressive (720p). Both HDTV formats are always broadcast in widescreen, and offer much higher picture quality than SDTV.

### Dolby Surround Sound

With DTV, you can listen to a variety of Dolby digital audio formats from Dolby Surround 2.0 to Dolby Digital 5.1 surround, using your home audio system. Many HDTV programs are now broadcast with DD 5.1 soundtracks.

## CableCARD and Digital Cable Ready TVs

CableCARD and Digital Cable Ready TVs are the products of a new digital cable standard. This new standard is called OpenCable and it is a concerted effort to standardize the digital cable service network interface in North America. For more information, please refer to www.cablelabs.com.

Digital Cable Ready TVs are equipped with a proper digital cable tuner to receive digital cable signals from your local cable service provider. They are also designed to work with digital cable card modules (PCMCIA card modules called CableCARDs). These PCMCIA card modules or CableCARDs will be provided by your local cable service provider after a proper subscription process.

The provided CableCARD from your local cable service provider needs to be inserted into the CableCARD slot of a Digital Cable Ready TV. Please refer to page 24 for how to insert the CableCARD.

A digital set-top box which used to be provided by the cable service provider is no longer needed with Digital Cable Ready TVs and CableCARDs.

When CableCARD is inserted into the slot, the TV screen will show the message that CableCARD is inserted and tries to download necessary data such as channel information or subscription information from your digital cable service provider. When you insert CableCARD for the first time, this process could take few minutes depending on the amount of data your cable provider needs to send. During this process the digital cable service provider or CableCARD may display messages on the TV screen to help or give you further information.

Please contact your local cable provider for more information on service availability and how to acquire a CableCARD.

### NOTE

• This television receiver supports the copy protection system regulated by DTLA (Digital Transmission Licensing Administrator). It should be noted that copy protected content may not be viewable depending on your particular connections.

## Q&A

### 1. Is the antenna I use for existing TV reception good enough for DTV?

Over-the-air (OTA) digital TV broadcasting uses the same channels as analog TV and works well with many existing TV antennas. However, DTV broadcast channel assignments are different than analog channels. You should find out whether your local DTV broadcasts are on VHF (channels 2-13) or UHF (channels 14-69) to see if you need a different antenna.

If your DTV channels are on UHF and you already get good UHF reception, your present antenna may work fine. The same holds true for VHF DTV reception. Note that in some markets, both VHF and UHF channels are used for DTV broadcasts.

You can find out the latest DTV channel assignments for your area by browsing selected Internet web sites such as www.titantv.com, www.10000watts.com, and www.fcc.gov.

### 2. How difficult is it to receive DTV signals indoors?

This depends on whether your local DTV stations are running full power or not and how close your location is to the transmission tower. DTV receivers do not require as much signal as analog TV receivers to produce high-quality images and sound.

Once the DTV signal level exceeds a certain threshold at the receiver, the digital video and audio data is decoded at the same quality it was originally encoded for broadcast. This is a big advantage for DTV over analog TV - there is no noise, ghosting, static, or scratchy audio.

# 3. How can I connect an antenna in my townhouse, co-operative apartment, condominium, or apartment?

The Federal Communications Commission's OTARD Rule (part of the Telecommunications Act of 1996) allows residents of condominiums, townhouse, or members of neighborhood associations to put up outside antennas for reception of broadcast TV signals as long as those antennas are not located in common areas and are no more than 12' in height.

Residents of rental units (apartments, etc.) are not covered by the OTARD rules and will have to use indoor antennas to receive DTV broadcasts. It is possible that the landlord of an apartment complex can provide broadcast DTV signals via a master TV antenna system to each apartment.

### 4. Can I connect my DTV set-top receiver to my cable TV service?

Cable TV systems use a different method for transmitting digital TV programs that is currently incompatible with broadcast DTV set-top receivers. So you will still need to use an outdoor or indoor antenna to receive OTA broadcast DTV programs.

The good news is that you won't have to pay a monthly or per-program charge to watch OTA DTV and HDTV programs. They're free, unlike subscription satellite TV or premium cable TV. All you need is an antenna and a DTV set-top receiver to enjoy clear, sharp widescreen images and high-quality audio.

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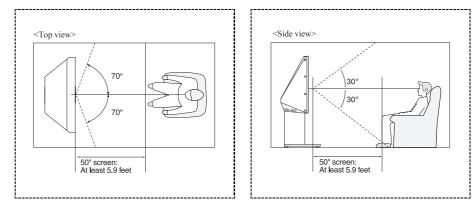


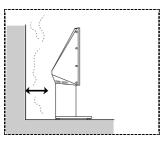
# Your New Wide TV

# Your New Wide TV

## **Viewing Position**

To optimize your viewing comfort, please follow the guidelines below for viewing distance. If viewing for an extended period of time, sit as far back from the screen as possible.





When installing the product, make sure to keep it away from the wall (more than 10cm /4 inches) for ventilation purposes.

• Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.

## **Replacing the Lamp**

### Why do I need to replace the lamp?

The lamp used in a DLP TV has a limited lifespan. For the best screen quality it needs to be replaced periodically. After replacing the lamp, the screen guality will be bright and clear as new.

## When do I need to replace it?

This should be replaced when the screen becomes darker, less clear or the 🕑 icon appears.



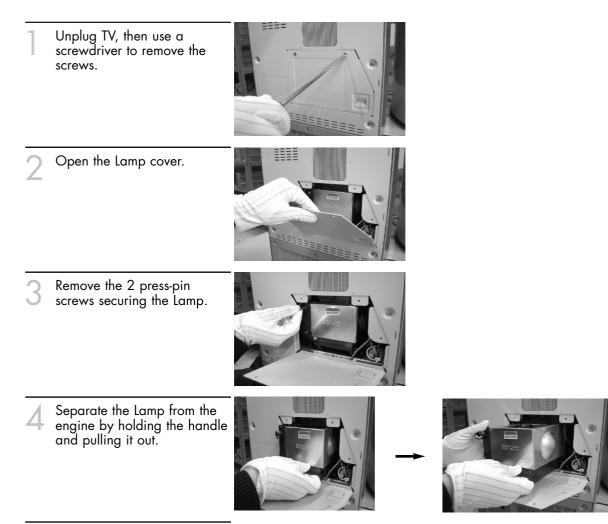
### Check before lamp replacement

- 1. The lamp must be the same code number and type.
- 2. The lamp type is indicated on the left side of the TV. It is also indicated on the lamp case.
- 3. After checking the code number for the lamp, give the code number to the store where you purchased the TV or to a Samsung Service center.

### Caution

- 1. Replace with the correct code numbered lamp to avoid damage to the TV.
- 2. Turn the power off and wait for 30 minutes before replacing the lamp as it will be hot.
- 3. Do not touch the glass part of the lamp with your bare hands or insert any foreign object inside the cover as it may cause poor screen quality, electric shock or fire.
- 4. Do not place the old lamp near flammable objects or within the reach of children.
- 5. Be sure to connect this TV directly to an AC wall outlet. If the TV's AC plug is connected to a cable box or other source, it will not allow for proper cool down time.

• For replacement, you will need a 5.91-Inch screwdriver and a pair of gloves.



To reinstall the Lamp, follow

these steps in reverse order.

### **NOTES**

- Be sure the replacement Lamp is the same type.
- After replacing the lamp, align the lamp cover with the groove and secure the screws.
- The TV will not turn on if the lamp cover is not correctly closed (as this will activate the protective circuit).

# Your New Wide TV

## List of Features

Your TV was designed and engineered using the latest technology. It is a full-featured, high-performance unit that exceeds industry standards. In addition, it has these special features:

- Easy-to-operate remote control
- Easy-to-use on-screen menu system you can access from the front panel or remote control
- Automatic timer to turn the TV on and off at any time you choose
- Adjustable picture and sound settings and the ability to memorize your favorite settings
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- Picture-in-Picture capability that let you watch two channels at once
- Widescreen TV with adjustable image size
- Life-like clear images provided by DNle technology
- My Color Control Mode for corresponding with your color style
- Color weakness Mode
- Digital Input (HDMI/DVI IN) jack
- Digital Audio Output (OPTICAL) jack
- AV network system (Anynet) that enables you to easily control Samsung audio-video(AV) devices from this TV.
- CableCARD slot

## Accessories

Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.





Remote Control (BP59-00076A)/ AAA Batteries

Warranty Cards (2)/ Registration Card (1)



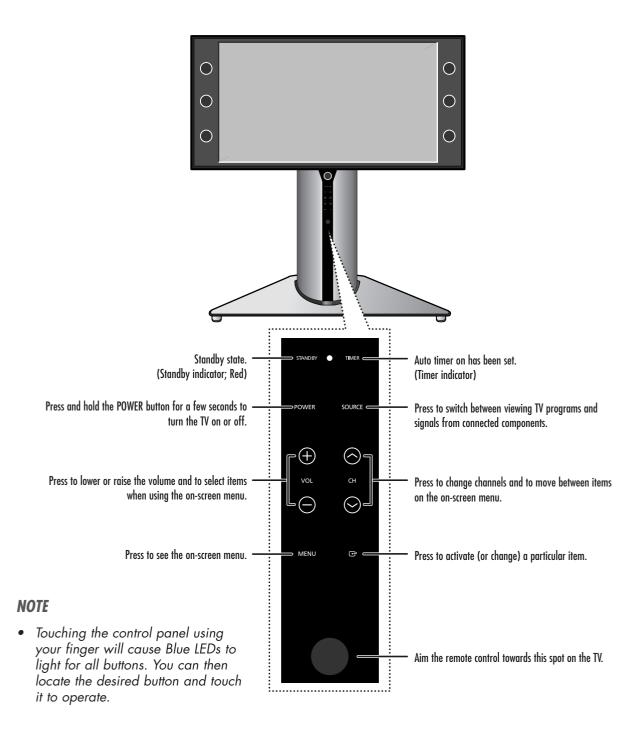
Instruction Manual/ Safety Guide/ Quick Guide/ Anynet Manual/ Manual Guide



**Anynet Cable** 

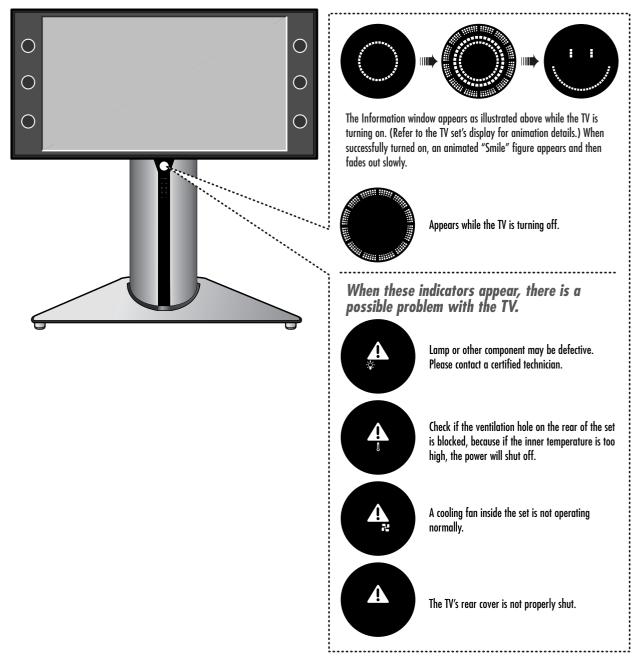
## **Front Panel Buttons**

The buttons on the front panel control your TV's basic features, including the on-screen menu system. To use the more advanced features, you must use the remote control.



# Your New Wide TV

## Front Panel Information Window

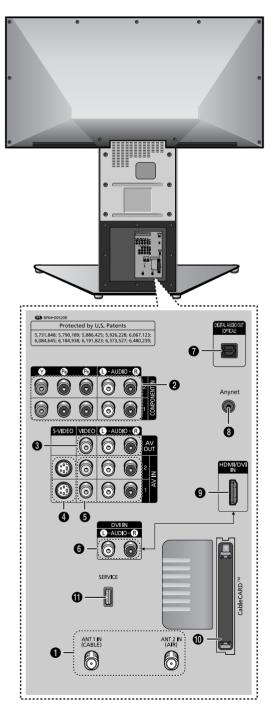


### **NOTES**

- It takes about 30 seconds for the TV to warm up, so normal brightness may not appear immediately.
- The TV has a fan to keep the inside lamp from overheating. You'll occasionally hear it working.

## **Rear Panel Jacks**

Use the rear panel jacks to connect components such as a VCR. You can connect different components such as VCRs, Set-Top Box and a DVD player etc., because there are two sets of video input jacks and two set of component video input jacks on the rear panel of your TV. For more information, please see "Connections".



#### ANTENNA terminals

Two independent cables or antennas can be connected to these terminals. Use "ANT 1 IN (CABLE)" and "ANT 2 IN (AIR)" terminals to receive a signal from VHF/UHF antennas or your cable system. (Refer to pages 20~22)

## O Component 1, 2 jacks (Y, PB, PR, L, R)

Use these jacks to connect the component video/audio signals from a DVD player or a set-top box. (Refer to pages 26~27)

## VIDEO/AUDIO OUTPUT jacks

Sends video/audio signal from the TV to an external source, such as a VCR. These jacks are available only in RF, Video and S-Video modes.

#### S-VIDEO INPUT jacks Connects an S-Video signal from an S-VHS VCR or DVD player.

(Refer to page 25)

## VIDEO/AUDIO INPUT jacks Connect wides (audio cignals from outernal courses, such as V

Connect video/audio signals from external sources, such as VCR or DVD players. (Refer to page 23 and 26)

OVI (Digital Visual Interface) AUDIO INPUT jacks Connect to the digital audio output jacks of a device with DVI output. (Refer to page 27)

## DIGITAL AUDIO OUT(OPTICAL) jack Connect to a Divital Audio Component (Pofer to page 2)

Connect to a Digital Audio Component. (Refer to page 29)

### Anynet

Please refer to the Anynet Owner's Instruction. This jack is for connecting to other Samsung Anynet-enabled devices.

O HDMI (High Definition Multimedia Interface) / DVI INPUT jack

Connect to the HDMI jack of a device with HDMI output. Connect to the digital video output jack for device with DVI output. (Not compatible with PC) (Refer to pages 27~28)

## CableCARD<sup>TM</sup>

Insert the CableCARD into the slot. (Refer to page 24)

### 

This jack is for software upgrades.

## Your New Wide TV

## **Remote Control**

You can use the remote control up to about 23 feet from the TV. When using the remote control, always point it directly at the TV. You can also use your remote control to operate your VCR, Cable box, DVD player and some Samsung Set-top boxes. See pages 38~39 for details.

- 1. **POWER** Turns the TV on and off.
- 2. P.MODE Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings.)
- 3. ANTENNA Press to select "AIR" or "CABLE".
- CHANNEL NUMBER Press to directly tune to a particular channel.
- Press to select additional channels (digital and analog) being broadcast by the same station. For example, to select channel "54-3", press "54", then press "-" and "3".
- 6. VOL +, VOL -Press to increase or decrease the volume.
- 7. MUTE Press to mute the TV sound.
- 8. ANYNET Runs the Anynet view functions and sets up Anynet devices. Please refer to the Anynet Owner's Instruction.
- 9. MENU Displays the main on-screen menu.

**10. CH.LIST** Displays the channel list.

- 11. FAV.CH (Favorite Channel) Press to switch between your favorite channels.
- 12. MODE

Selects a target device to be controlled by the Samsung remote control (i.e., TV, STB, VCR, CABLE, or DVD).

- 13. PRE-CH Tunes to the previous channel.
- 14. SOURCE

Press to display all of the available video sources (i.e., TV, Set-Top box, VCR, DVD, DTV).

- **15. CH** // Press to change channels. Moves from one set of screen information to the next in TV Guide menu.
- 16. INFO Press to display information on the TV screen.

### 17. EXIT

Press to exit the menu.

- 18. A, V, A, P, ENTER Press to select highlight up, down, left, or right. While using the on-screen menus, press the ENTER to activate (or change) a particular item.
- 19. MTS (Multichannel Television Stereo) Press to choose Stereo, Mono or SAP (Secondary Audio Program).
- 20. PIP (Picture In Picture) Displays the available channels in sequence. (These buttons change channels in the PIP window only.)
- **21. STILL** Press to pause the current screen.
- **22. ASPECT** Press to change the screen size.

23. SRS Activates TruSurround.

#### 24. DNIe (Digital Natural Image engine) Activates DNIe.

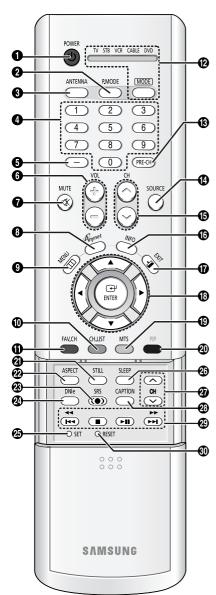
25. SET

Used during set up of this remote control, so that it will work compatibly with other devices (some Samsung Set-top boxes, VCR, Cable box, DVD, etc.)

26. SLEEP

Press to select a preset time interval for automatic shut off.

- 27. PIP Controls CH \/ \/ ; Press to display the available channels in sequence. (These buttons change channels in the PIP window only.)
- **28. CAPTION** 
  - Controls the caption decoder.
- 29. VCR/DVD Controls Controls VCR or DVD functions: Rewind, Stop, Play/Pause, Fast Forward.
- 30. RESET If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds. Re-insert the batteries and try using the remote control again.



English - 16

### **Installing Batteries in the Remote Control**

With normal use, the batteries in the remote control should last about a year. If you notice a performance degradation while using the remote, the batteries may need to be replaced. Make sure you replace both batteries and do not mix old and new batteries in the remote control. If you won't be using the remote control for a long time, remove the batteries and store them in a cool dry place.

Slide the back cover all the way out to open the battery compartment of the remote control.
Install two AAA size batteries. Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
Slide the cover back into place.

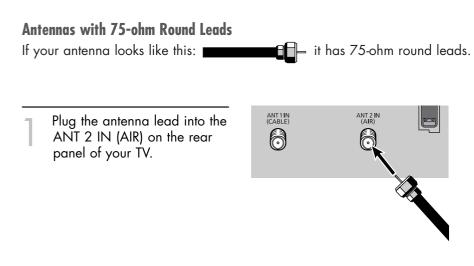
## NOTE

• Do not mix battery types, i.e, alkaline and manganese.



## **Connecting VHF and UHF Antennas**

If you do not have a cable system, you will need to connect an antenna to your TV.

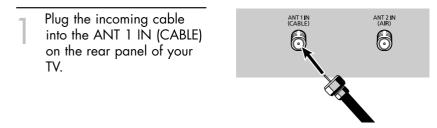


## **Connecting Cable TV**

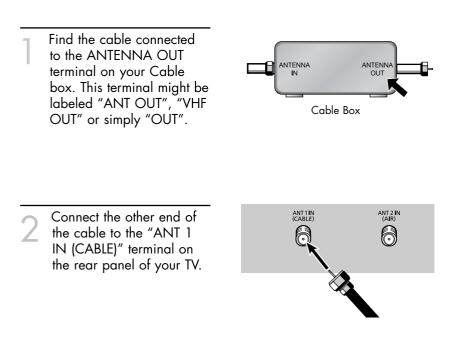
You can connect different cable systems to your TV, including cable without a Cable box, and cable with a Cable box that descrambles some or all channels.

## Cable without a Cable Box

If you want to connect cable, and you do not need to use a cable box:

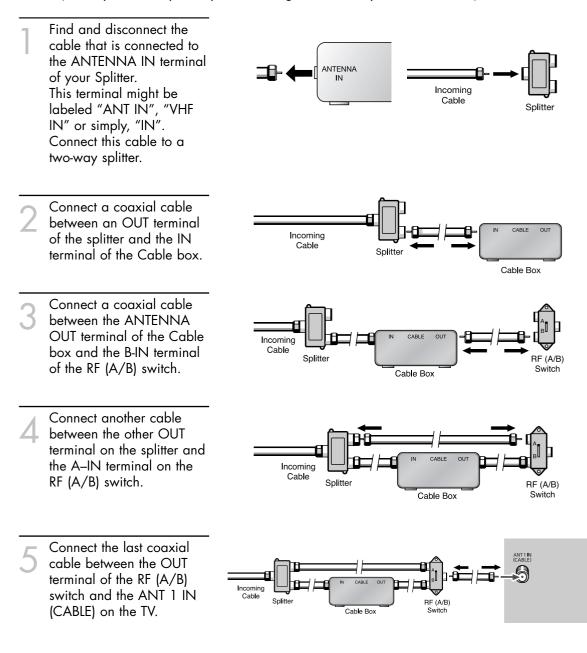


## Cable with a Cable Box that Descrambles All Channels



### Cable with a Cable Box that Descrambles Some (But Not All) Channels

To complete this connection you will need a two-way splitter, an RF (A/B) switch, and four coaxial cables (which you can buy from your Samsung dealer or any electronics store).



After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your Set-Top Box to the Cable box's output channel, which is usually channel 3 or 4.)

English - 22

## Connecting a VCR

## Connecting a VCR to the Video or S-Video/Audio jack

- Connect the Video/Audio cables between the VIDEO or S-VIDEO/AUDIO input jacks on the TV and VIDEO or S-VIDEO/AUDIO output jacks on the VCR.
- 2 Connect a coaxial cable between the Antenna out terminal (i.e., "OUT to TV") on the VCR and the ANT 1 IN (CABLE) on the TV.

3 Connect a video cable between the S-VIDEO IN jack on the TV and the S-VIDEO OUT jack on the VCR.

### Incoming Cable or Antenna TV Rear Panel Stereo VCR 0 ß 6 6 0 $\odot$ 6 ANT 2 IN (AIR) ANT 1 IN (CABLE) 3 0 0 [2]

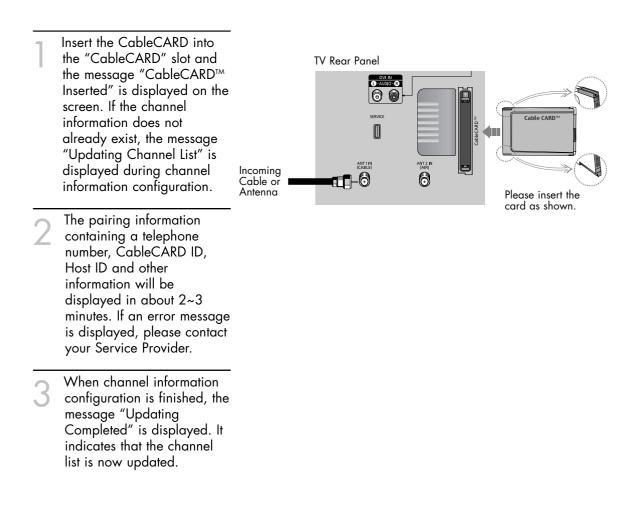
### **NOTES**

- For better video, use an S-Video cable.
- Please be sure to match the color coded input terminals and cable jacks.

English - 23

## **Connecting CableCARD**

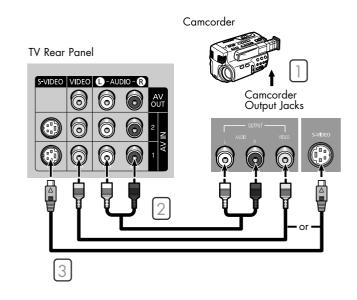
You must obtain a CableCARD from a local cable service provider.



## Connecting a Camcorder

You can use your camcorder to view tapes without using a VCR.

- Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.
- 2 Connect a set of audio cables between the AUDIO IN jacks on the TV and the AUDIO OUT jacks on the camcorder. If you have a mono Camcorder, connect L(mono) to the Camcorder audio out using only one audio cable.
- 3 Connect a video cable between the VIDEO IN (or S-VIDEO IN) jack on the TV and the VIDEO OUT jack on the Camcorder. The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your Camcorder is stereo, you need to connect a set of two cables.



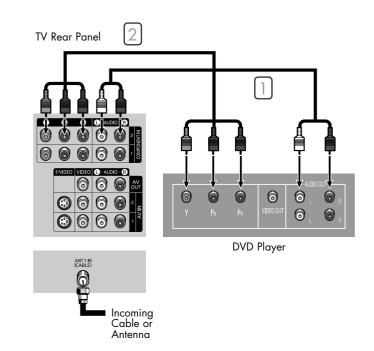
## **Connecting a DVD Player**

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

### **Connecting to Y, PB, PR**

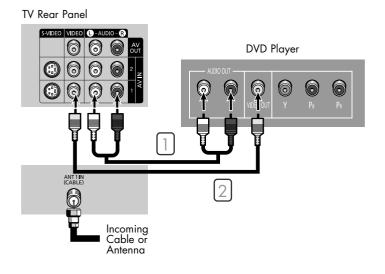
- Connect a set of audio cables between the COMPONENT (1 or 2) AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the DVD player.
- To enable Component video viewing, connect a set of video cables between the COMPONENT (1 or 2) VIDEO (Y, PB, PR) IN jacks on the TV and VIDEO (Y/PB/PR or Y/CB/CR) OUT jacks on the DVD player.

Note: For an explanation of Component video, see your DVD player's owner's manual.



### **Connecting to Audio and Video Jacks**

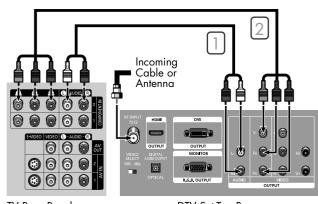
- Connect a set of audio cables between the AUDIO IN (1 or 2) jacks on the TV and the AUDIO OUT jacks on the DVD player.
- 2 Connect a video cable between the VIDEO IN (1 or 2) jack on the TV and the VIDEO OUT jack on the DVD player.



## Connecting a DTV Set-Top Box

### Connecting to Y, PB, PR

- Connect a set of audio cables between the COMPONENT (1 or 2) AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.
- Connect a set of video cables between the COMPONENT (1 or 2) VIDEO (Y, PB, PR) IN jacks on the TV and VIDEO (Y/PB/PR or Y/CB/CR) OUT jacks on the Set-Top Box. Note: For an explanation of Component video, see your Set-Top Box owner's manual.



TV Rear Panel

DTV Set-Top Box

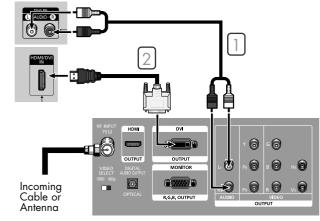
### **Connecting to DVI (Digital Visual Interface)**

- Connect a set of audio cables between the DVI AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.
- 2 Connect an HDMI/DVI video cable between the HDMI/DVI IN jack on the TV and the DVI OUT jack on the Set-Top Box.

### **NOTES**

- Requires a Cable Converter.
- The HDMI/DVI IN jack is not compatible with PC.





DTV Set-Top Box

menu's source list.

# Connecting to HDMI (High Definition Multimedia Interface)

TV Rear Panel Connect an HDMI cable HDM//DVI IN between the HDMI/DVI IN jack on the TV and the HDMI OUT jack on the Set-Top Box. NOTE • Make sure the HDMI/DVI HDM DV source's power is on, or you Ð will be unable to select it in the OUTPUT

DTV Set-Top Box

## Connecting a Digital Audio System

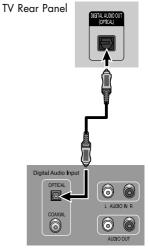
There are many types of digital audio systems on the market today.

A simplified illustration of an audio system is shown below. For more information, see your audio system owner's manual.

If your audio system has a optical digital audio input, connect to the "DIGITAL AUDIO OUT(OPTICAL)" jack on the TV.

## NOTE

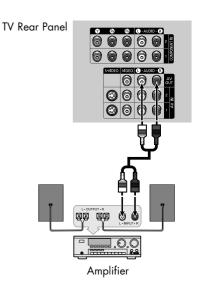
• OPTICAL: converts the electric signal into an optical light signal, and transmits it through glass fibers. A transmission system of digital audio in the form of a light wave, S/PDIF format using a glass conductor. See page 80 to set the digital output format (Dolby Digital or PCM) appropriate to your digital audio component.



Audio System

## Connecting to an Analog Amplifier

The "AUDIO OUT" terminals cannot be used for external speakers. You must hook them up to an amplifier. When an audio amplifier is connected to the "AUDIO OUT" terminals: Decrease the gain (volume) of the audio amplifier, and adjust the volume level with the volume control on the TV.







# Operation

## Turning the TV On and Off

Press the POWER button on the remote control. You can also use the POWER button on the front panel.

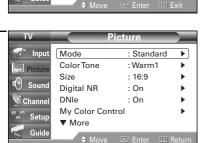
## Viewing the Menus and On-Screen Displays

The on-screen menu system allows you to control the settings of your TV. Access the on-screen menu system by pressing the MENU button on the remote control. Once the on-screen menu appears, use the  $\blacktriangle/\bigtriangledown/\checkmark/\diamondsuit/$ ENTER buttons on your remote control to select menu items and make adjustments. You can also view the on-screen menu system and make some adjustments using the TV's front panel buttons.



### Viewing the Menus

- Press the MENU button. The main menu is displayed. There are six menu groups: "Input", "Picture", "Sound", "Channel", "Setup", and "Guide".
- Press the ▲ or ▼ button to select an item you want in the menu. Press the ◀, ► or ENTER button to display, change,



Source List

Edit Name

Anynet

Pictu

Guid

🕑 Soi

٠TV

Press the EXIT button to exit.

or use the selected items.

Use the ENTER button to enter items in the menu.

## Viewing the Display

Press the INFO button on the remote control. The TV displays the current channel, the status of certain picture and sound settings and the current time. The information displayed varies according to the selected source.

Cable 3	
Picture Mode	Standard
Sound Mode	Custom
MTS	Stereo
Caption	Off
V-Chip	Off
NoTime Inform	nation

# Selecting a Menu Language



1	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	TV Input Picture Sound Channel Setup Guide	Time V-Chip Caption Menu Transparency : Blue Screen : ▼ More	English ) )
2	Press the ENTER button to select "Language". Press the ▲ or ▼ button to select "English", "Español" or "Français", then press the ENTER button.	TV Input Picture Sound Channel Setup Guide	Time I V-Chip Caption Menu Transparency : Blue Screen : ▼ More	inglish Ispañol Français
	Press the EXIT button to exit.			

## Operation

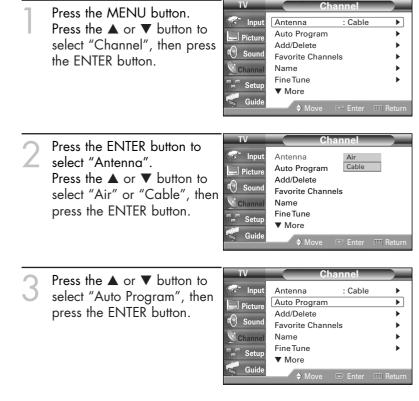
## Memorizing the Channels

Your TV can memorize and store all of the available channels for both air and cable channels. After the available channels are memorized, use the CH  $\land$  and CH  $\lor$  buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).



## Selecting the Video Signal Source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or cable system).



Continued...

## NOTE

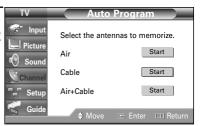
• All available DTV and analog channels are automatically stored in memory.

Press the ▲ or ▼ button to select the Antenna connection, then press the ENTER button.

- Air : "Air" antenna signal Cable : "Cable" antenna signal Air+Cable : "Air" and "Cable" antenna signals
- If the CableCARD is inserted into the "CableCARD" slot on the rear panel, "Cable" and "Air+Cable" are not available.

When selecting Cable TV system: Press the ENTER button to start the auto program. By default, the cable TV system is set to "STD".

If you want to select another type of cable system, press the ◄ button and use the ▲ or ▼ button to select Analog or Digital "STD", "HRC" or "IRC". Press the ENTER button.



TV	Auto Progran	1
🐨 Input	Select the cable system. Analog	
Picture	STD 🖌	Start
🕑 Sound	HRC IRC	
Channel	Digital	
	STD 🖌	
Setup	HRC	
Cuide.	IRC	
🖏 Guide	💠 Move 🛛 🖻 Enter	IIII Return

 STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

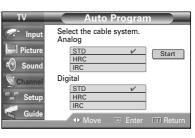
At this point the signal source has been selected.

5

Press the ► button to select "Start", then press the ENTER button to start the auto program. The TV begins memorizing all available stations. Press the ENTER button at any time to interrupt the memorization process.

Press the EXIT button to exit.

 The TV must be connected to an antenna in order to receive digital TV signals. Even if a particular channel is deleted from the memory, you can always tune to that channel directly by using the number buttons on the remote control.



A	uto Progran	m )
Auto Program ir		
	Cabl	e Channel 44
	Stop	
	🖅 Enter	🖽 Return

# Operation

# Adding and Erasing Channels

You can add channels that were not memorized (or delete unwanted channels from memory).



Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.	TV     Channel       Input     Antenna     : Cable       Picture     Auto Program     >       Add/Delete     >       Favorite Channels     >       Channel     Name     >       Fine Tune     >       More     >       Move     Enter
2 Press the ▲ or ▼ button to select "Add/Delete", then press the ENTER button.	INPUt       Antenna       : Cable         Picture       Auto Program       >         O Sound       Add/Delete       >         Channel       Name       >         Setup       Fine Tune       >         Guide       ✓ More       >
Repeatedly pressing the ENTER button will alternate between add channel and delete channel. Press the CH ∧ or CH ∨ button to switch to the appropriate channel, then repeat above.	Add/Delete Cable 26 Not In Memory Press ENTER to add the channel.  Add Move Enter Cable 26 In Memory Press ENTER to delete the channel.
Press the EXIT button to exit.	Delete @ Move 🖙 Enter 🎹 Return

# **Changing Channels**

### **Using the Channel Buttons**

Press the CH  $\wedge$  or CH  $\vee$  button to change channels.

When you press the CH  $\land$  or CH  $\checkmark$  button, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

#### **Using the Number Buttons**

Use the number buttons to quickly switch to any channel.

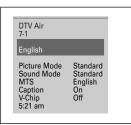
Press the number buttons to go directly to a channel. For example, to select channel 27, press "2," then "7." The TV will change channels when you press the second number.

#### Using the "-" Button

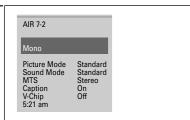
The "-" button is used to select stations that broadcast both a digital and analog signal.



For example, for channel 7-1 (digital), press "7", then "–", then "1".



For channel 7-2 (analog), press "7", then "-", then "2".



### NOTE

 HD indicates the TV is receiving a Digital High Definition signal.
 SD indicates the TV is receiving a Analog standard definition signal.

Using the Previous Channel

Press the PRE-CH button.

The TV changes to the last channel you were watching.

# Operation

### **Customizing Your Remote Control**

Your TV comes equipped with a universal remote control. In addition to controlling the TV, the universal remote control can also operate a VCR, Cable box, DVD, and some Samsung Set-top boxes (even if your VCR, Cable box and DVD are made by manufacturers other than Samsung).

### NOTE

• The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.



# Setting Up Your Remote Control to Operate Your VCR (Cable box or DVD player)

Turn off your VCR (Cable box or DVD player).

- Press the MODE button to switch the remote control to the VCR (CABLE or DVD) mode. The remote control has five modes: TV, STB, VCR, CABLE, and
- On your Samsung remote control, press the SET button.
- Enter 3 digits of the VCR (Cable box or DVD player) code listed on next page for your brand of VCR (Cable box or DVD player).
  - Make sure you enter 3 digits of the code, even if the first digit is a "0". (If more than one code listed, try the first one.)
- 5 Press the POWER button. Your VCR (Cable box or DVD player) should turn on. If your VCR (Cable box or DVD player) turns on, your remote control is now set correctly.

If your VCR (Cable box or DVD player) does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for the brand of your particular VCR (Cable box or DVD player).

Once your remote control is set up, press the MODE button any time you want to use the remote to operate your VCR (Cable box or DVD player).

### NOTES

DVD.

- When your remote is in the TV mode, the VCR (or DVD player) control buttons (REW, STOP, PLAY/PAUSE, and FF) will still operate your VCR (or DVD player).
- When your remote control is in the STB, VCR, CABLE, or DVD mode, the volume buttons still control your TV's volume.

# **Remote Control Codes**

### VCR Codes

Admira	015,088	Hitachi	014,024,044,045	Quasar	017,053
Aiwa	024	Instant Replay	017	Radio Shack	011,015,017,018,021,024,
Akai	026,031,032	JC Penny	011,014,016,017,023,025,		028,036,052,062
Audio Dynamics	022,025	1	039,044,060,062	RCA	009,014,016,017,037,044,
Be & Howe	011	JCL	011,017,023,025,039,055		046,063,078
Broksonic	019	Kenwood	011,023,025,039,055	Realistic	011,015,017,018,021,024,
Candle	016,018,022,054,055,061	KLH	082		028,036,052,062
Canon	017,062	LG(Goldstar)	001,002,007,018,023,055,	Samsung	000,016,022, 031,041,051
Citizen	016,018,022,054,055,061		069	Sansui	025
Colortyme	023	Lloyd	024	Sanyo	011,021
Craig	016,021	Logik	040	Scott	022,050,058,077
Curtis Mathes	009,016,017,023,024,055,	LXI	024	Sears	011,014,018,021,027,028,
	062,073,076	Magnavox	017,038,062,065		044,052,057
Daewoo	003,004,005,006,007,008,	Marantz	011,017,023,025,038,039,	Sharp	015,036,048,054
	022,054,085		055,070	Shintom	026,035,040,064
DB	023,025	MTC	016,024	Signature	024
Dimensia	009	Multitech	016,024,040,041	Sony	026,035,047
Dynatech	024	NEC	011,023,025,039,055,070,	Sylvania	017,024,038,062,065
Electrohome	036		073	Symphonic	024
Emerson	017,018,019,022,024,029,	Optimus	015	Tandy	011,024
	032,036,043,050,051,056,	Panasonic	017,062,084,086	Tatung	039
	058,066,071,074,076,077,	Pentax	014,044	Teac	024,039,078
	079	Pentex Research+	055	Technics	017
Fisher	011,021,027,028,052,057,	Philco	017,038,062,065	Teknika	017,018,024,030
	067	Philips	017,038	TMK	076
Funai	024	Pioneer	014,025,042,059	Toshiba	014,022,028,057,058
General Electric	009,016,017,041,062	Portland	053,054,061	Toshiko	018
Go Video	016	PROSCAN	009	Totevision	016,018
Harman Kardon	023	Quartz	011		

### **Cable Box Codes**

Anvision	015,016	Magnavox	015,016,027,029,034,036,	Signature	054
Cable Star	015,016		037,040,041,048,049	Sprucer	035
DaeHan	005	Nawoo	001	Starcom	054
DeaRyung	003	NSC	017	Stargate2000	066
DongKuk	004	Oak	024,046	Sylvania	019,067
Eagle	015,016	Osk Sigma	024	TaePyungYang	002
Eastern International	020	Panasonic	011,035,047,069	Texscan	019,067
General Instrument	054	Philips	015,016,027,029,034,036,	Tocom	025,029,057,058,063
GI	012,013,023,031,032,033,		037,040,041,048,049	Unika	039,040,049
	038,044,075,076,077	Pioneer	026,028,052	Universa	059,060
Hamlin	011,012,020,021,042,056	Randtek	015,016	Viewstar	015,016,027,029,034,036,
Hitachi	045,051,054	RCA	008,035,074		037,040,041,048,049
Jerrold	012,013,023,031,032,033,	Rega	011,020,021	Warner Amex	052
	038,044,054,070,073	Regency	010,041	Zenith	022,050,065,069
LG(Goldstar)	006	Saewoo	007		
Macom	045,051	Samsung	000,011,030,052,071,072		

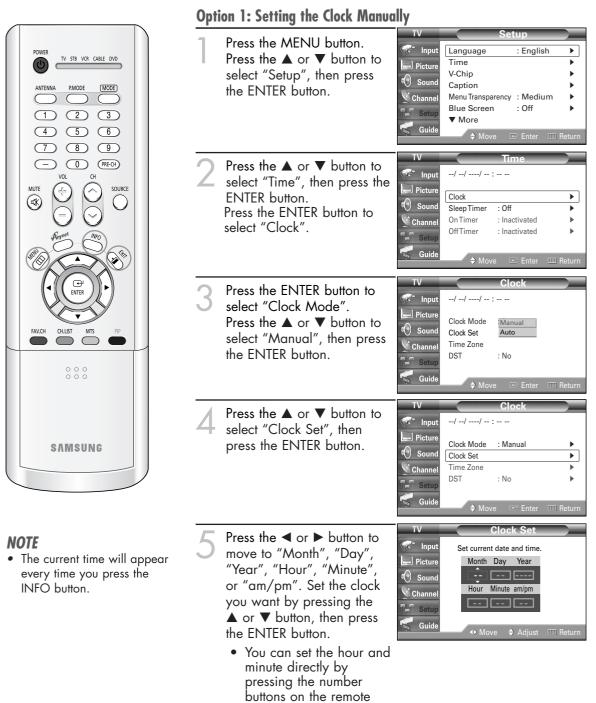
### **DVD Codes**

Curtis Mathes	009	Philips	007	Sharp	005
JVC	003	PROSCAN	008	Sony	004
LG(Goldstar)	001	RCA	008	Toshiba	002
Panasonic	006	Samsung	000		

# Operation

# Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)

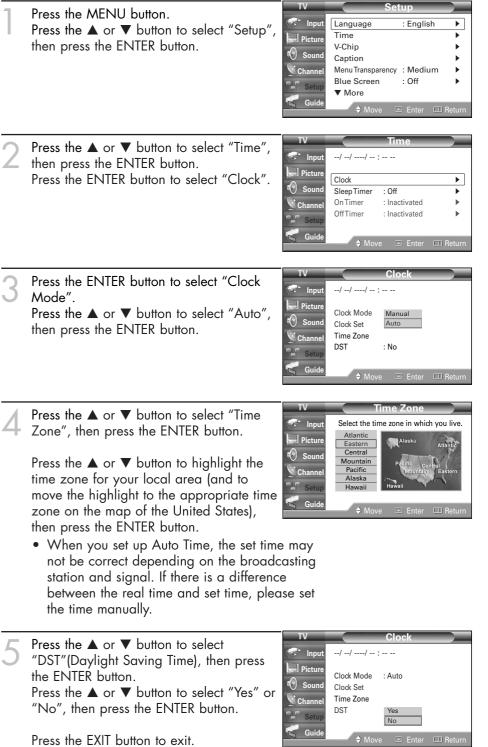


control.

Press the EXIT button to exit.

### **Option 2: Setting the Clock Automatically**

The Clock can be set automatically if you are receiving a digital signal.



# Operation

# Setting the On/Off Timer



### NOTE

Auto Power Off

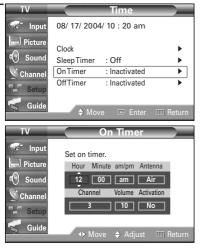
When you set the timer "On", the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer "On" mode and prevents overheating or leakage, which may occur if a TV is on for too long (when you are on vacation, for example).

### Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

Press the ▲ or ▼ button to select "Time", then press the ENTER button. Press the ▲ or ▼ button to select "On Timer", then press the ENTER button. Press the ▲ or ▼ button to adjust "Hour", then press the ▲ or ▼ button to adjust "Hour", then press the ▶ button to move to the next step. Set other items using the same method as above.

To activate On Timer with the setting entered, set Activation to "Yes" by pressing ▲ or ▼ button.





• You can set the hour and minute directly by pressing the number buttons on the remote control.

When finished, press the MENU button to return.

Press the ▲ or ▼ button to select "Off Timer", then press the ENTER button.
 Press the ▲ or ▼ button to adjust "Hour", then press the ▶ button to move to the next step. Set other items using the same method as above.

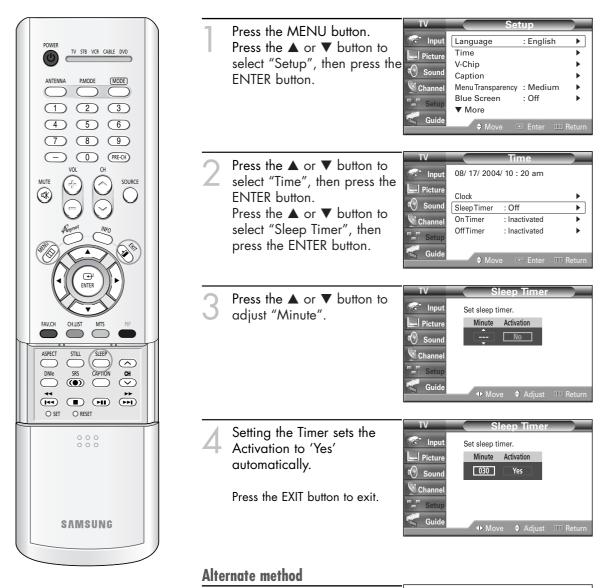
TV	Off Timer
<ul> <li>Input</li> <li>Picture</li> <li>Sound</li> <li>Channel</li> <li>Setup</li> </ul>	Set off timer. Hour Minute am/pm Activation 12 00 am No
Guide	♣ Move ♣ Adjust III Return

To activate Off Timer with the setting entered, set Activation to "Yes" by pressing  $\blacktriangle$  or  $\triangledown$  button.

When finished, press the EXIT button to exit.

### Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).



Press the SLEEP button on the remote control repeatedly until the appropriate time interval appears (any of the preset values from "30 min" to "180 min").



# Operation

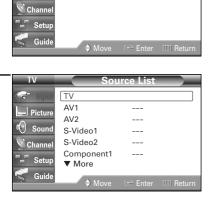
# Viewing an External Signal Source

Use the remote control to switch between viewing signals from connected equipment, such as a VCR, DVD, Set-Top Box or the TV source (broadcast or cable).



#### Setting the Signal Source

- Press the MENU button. Press the ENTER button to select "Input".
- Press the ENTER button to select "Source List". Press the ▲ or ▼ button to select a signal source, then press the ENTER button.
  - When you connect equipment to the TV, you can choose



Source List

Edit Name

Anynet

Sou

between the following sets of jacks: "AV1", "AV2", "S-Video1", "S-Video2", "Component1", "Component2" or "HDMI/DVI" on the TV's rear panel.

• HDMI input can be selected only when the external device is turned on and connected to the TV.

### Alternate method

Press the SOURCE button on the remote control repeatedly to select an external signal source.

AV1		

### Assigning Names to External Input Mode

This feature enables you to name the input source you have connected.



Set other signal sources (AV2, S-Video1, S-Video2, Component1, Component2, HDMI) using the same method as listed above.

Press the EXIT button to exit.



# **Channel Control**

# **Channel Control**

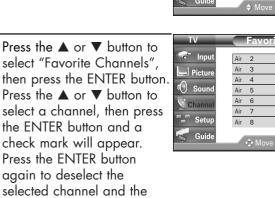
# Selecting Your Favorite Channels

You can store your favorite channels for each available input source (such as TV and CATV). This allows you to quickly and easily find frequently watched channels by pressing the FAV.CH button on the remote control.



#### To Store Your Favorite Channels:

Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



anne

: Air

Select All

Clear All

Antenna

Name

FineTune

▼ More

Pictu

Sou

Set

Guid

Auto Program

Favorite Channels

Add/Delete

check mark will disappear. Press the EXIT button to exit.

### **NOTES**

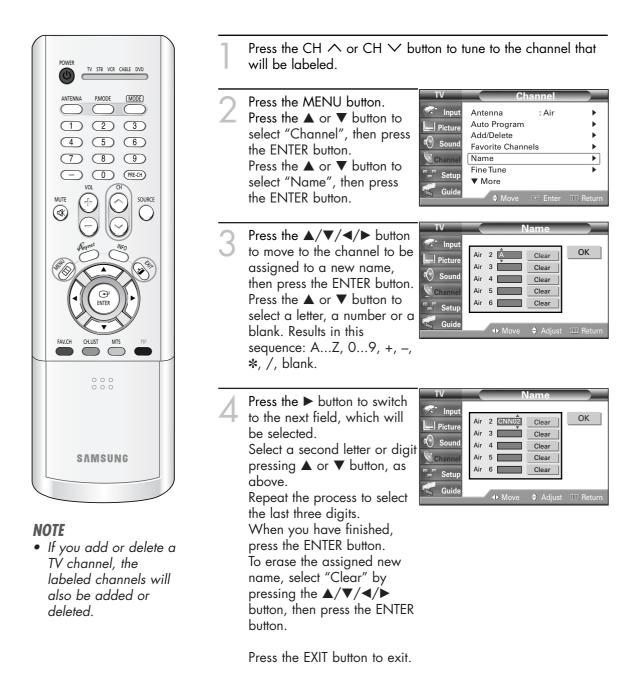
- Only memorized channels can be set as Favorite channels.
- Select All : Press to select all channels.
- Clear All : Press to clear all channels.

### **To View Your Favorite Channels:**

Press the FAV.CH button repeatedly to jump from one favorite channel to another.

### Labeling the Channels

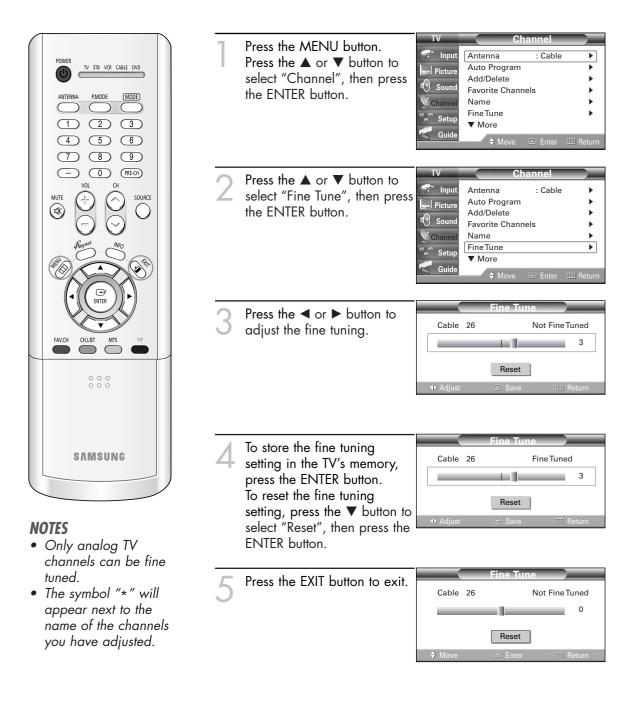
Use this feature to assign an easy-to-remember label to analog channels (i.e., "CBS", "ESPN", "PBS2", CNN02", etc.) A label consists of five fields, where each field is a letter, a number or a blank. When the INFO button is pressed, the channel label will appear below to the channel number.



# **Channel Control**

# Fine Tuning Analog Channels Analog

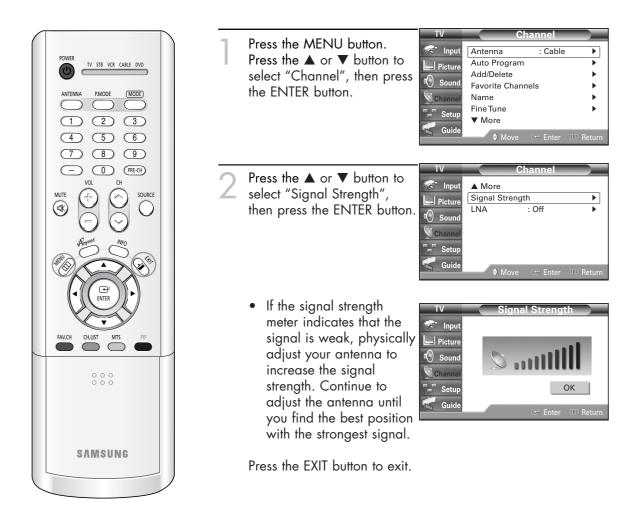
Use fine tuning to manually adjust a particular channel for optimal reception.



# Checking the Digital-Signal Strength Digital

Unlike analog channels, which can vary in reception quality from "snowy" to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analog channels, you cannot fine tune a digital channel.

You can, however, adjust your antenna to improve the reception of available digital channels.

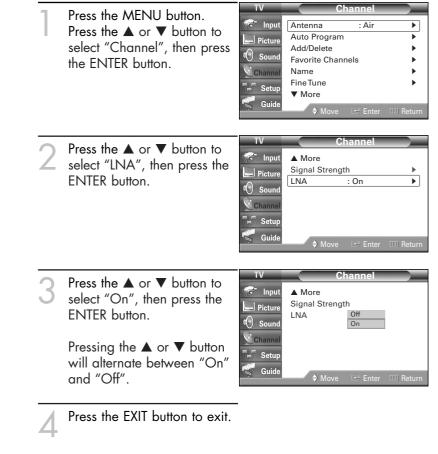


# **Channel Control**

# LNA (Low Noise Amplifier)

If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).





### NOTE

• LNA functions only when antenna is set to AIR. The settings will be stored separately in each channel.

# **Picture Control**

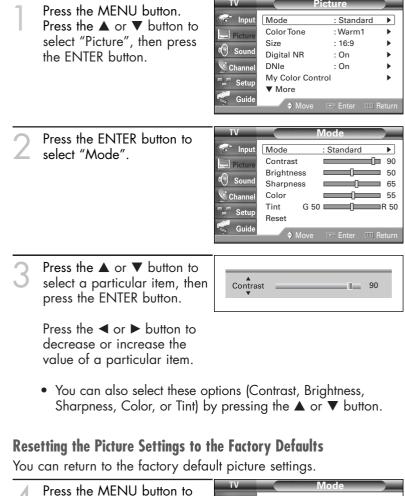
You can use the on-screen menus to change the "Contrast", "Brightness", "Sharpness", "Color", and "Tint" according to personal preference. (Alternatively, you can use one of the automatic settings. See next page.)



### NOTE

 "Tint" doesn't operate in HDMI/DVI or 480p Component or higher modes.

#### **Customizing the Picture**



Press the MENU button to display the "Mode" menu. Press the ▲ or ▼ button to select "Reset", then press the ENTER button. The previously adjusted picture settings will be reset to the factory defaults.

Mode : Standard Contrast 90 ] Pictur Brightness n. 50 Ο Sou Sharpness ■ 65 Chann Color 55 Tint G 50 ■ ■R 50 📕 Setu Reset Guid

Press the EXIT button to exit.

#### **Using Automatic Picture Settings**

Your TV has automatic picture settings ("Dynamic", "Standard" and "Cinema") that are preset at the factory. You can select "Standard" which automatically recalls your personalized picture settings.

1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	Image: Note of the image: Note of
2	Press the ENTER button to select "Mode".	Image: Note of the standard       Image: Note
3	Press the ENTER button again to select "Mode". Press the ▲ or ▼ button to select a particular item, then press the ENTER button. Press the EXIT button to exit.	TV     Mode       Picture     Contrast     Standard     90       O Sound     Brightness     Cinema     50       Sharpness     65     Color     50       Color     50     Tint     G 50       Guide     Move     Enter     Return

- Choose "Dynamic" for viewing the TV during the day or when there is a bright light in the room.
- Choose "Standard" for the standard factory settings.
- Choose "Cinema" when viewing a movie.

# Selecting the Color Tone



1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV Input Picture Sound Channel Setup Guide	Picture Mode : Standa Color Tone : Warm1 Size : 16:9 Digital NR : On DNIe : On My Color Control ▼ More Move Enter	
2	Press the ▲ or ▼ button to select "Color Tone", then press the ENTER button.	TV Input Picture Sound Channel Setup Guide	Picture         Mode       : Standa         Color Tone       : Warm1         Size       : 16:9         Digital NR       : On         DNIe       : On         My Color Control       ▼         ▼ More       € Enter	
3	Press the ▲ or ▼ button to select "Cool2", "Cool1", "Normal", "Warm1", or "Warm2", then press the ENTER button. Press the EXIT button to exit.	TV Input Picture Sound Channel Setup Guide	Picture         Mode       : Standa         Color Tone       Cool2         Size       Cool1         Digital NR       Normal         DNIe       Warm2         My Color Control       ▼ More         ♦ Move       ∵ Enter	Ird

### NOTE

• Color tone is not available in the "Cinema" picture mode.

### **Changing the Picture Size**

You can select the picture size which best corresponds to your viewing requirements.



#### NOTE

• You can select only the 16:9 and 4:3 screen sizes in the Component (720p, 1080i) mode.

# **Digital Noise Reduction**

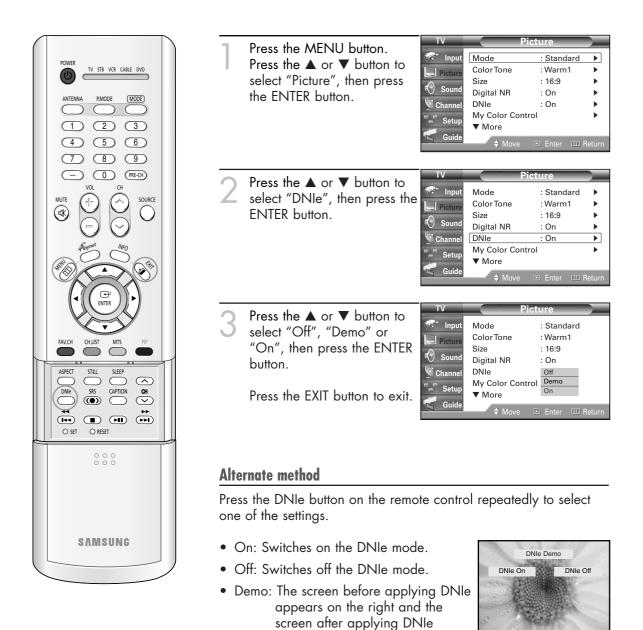
If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV Channel Channel Channel Channel Channel Channel Channel Channel	Picture         Mode       : Standard         Color Tone       : Warm1         Size       : 16:9         Digital NR       : On         DNle       : On         My Color Control       >         ▼ More
2	Press the ▲ or ▼ button to select "Digital NR", then press the ENTER button.	TV Carlor TV Picture Sound Channel Channel Cuide	Picture         Mode       : Standard         ColorTone       : Warm1         Size       : 16:9         Digital NR       : On         DNIe       : On         My Color Control       >         ▼ More       Enter       Im Return
3	Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button. Press the EXIT button to exit.	TV Control Picture Control Sound Channel Channel Chandel Chandel	Picture         Mode       : Standard         Color Tone       : Warm1         Size       : 16:9         Digital NR       Off         DNIe       On         My Color Control       ▼ More         ♦ Move       Enter       In Return

### DNIe<sup>™</sup> (Digital Natural Image engine) **DNIe**<sup>™</sup>

This feature brings you a more detailed image with 3D noise reduction and detail, contrast and white enhancement.



appears on the left.

# Setting the My Color Control Mode

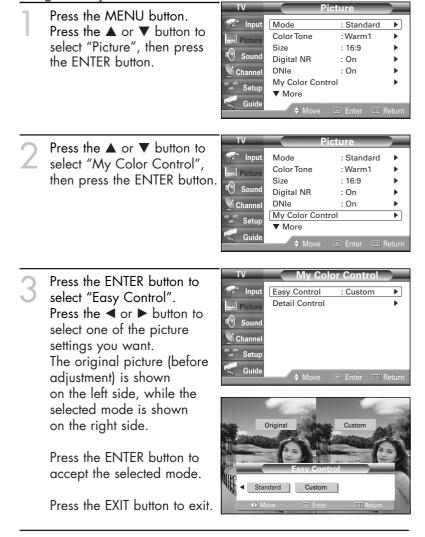
My Color Control allows users to adjust colors according to their preferences, by adjusting skin, sky, and grass tones using the predefined settings ("Blue", "Green", "Pink", "Standard", and "Custom") without affecting other colors on the screen.



#### **NOTES**

- Changing the settings in the "Detail Control" menu (see next page) will automatically set the My Color Control mode to "Custom".
- The My Color Control feature operates only when "DNIe" is set to "On" and "Demo" mode.

#### Using the Easy Control Menu



- "Blue": Emphasizes Clear Blues.
- "Green": Emphasizes Mild Greens.
- "Pink": Emphasizes Warm Skin Colors.
- "Standard": Standard Picture.

### Customizing the setting of My Color Control

The users are able to, adjust 3 types of colors on My Color Control ("Pink", "Green" and "Blue").



select "Reset", then press the ENTER button. The previously adjusted My Color Control Colors will be reset to the factory defaults. Press the button EXIT to exit.

IV		Deta	li Contro	0	_
nput	Pink				50
Picture	Green				50
	Blue				50
Sound	Reset				
Channel					
Setup					
Guide	<b></b>	Move	🖂 Enter	III Re	eturn
			Entor		

: Standard

▶

50

50

50

: Warm1

: 16:9

: On

: On

or Contro

Adjus

: Custom

Mv Co

### Using the Color Weakness Enhancement Feature

This feature adjusts the Red, Blue or Green color to enhance the picture according to the user's particular color weakness.

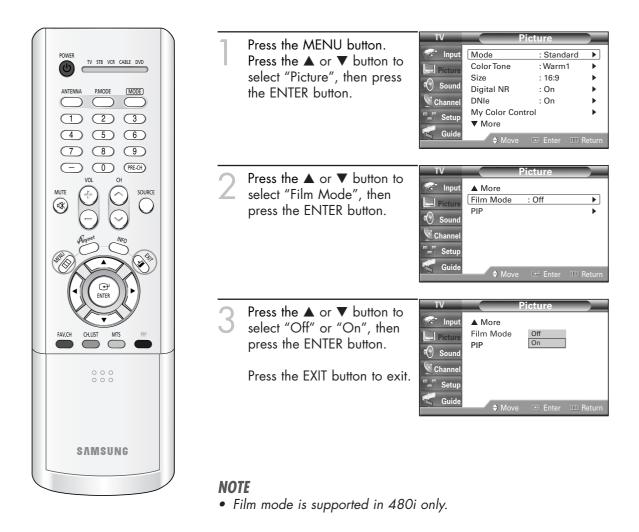


### NOTE

 You can also select these options (Red, Green or Blue) by pressing the ▲ or ▼ button.

# Setting the Film Mode

You can automatically sense and process film signals from all sources and adjust the picture for optimum quality.

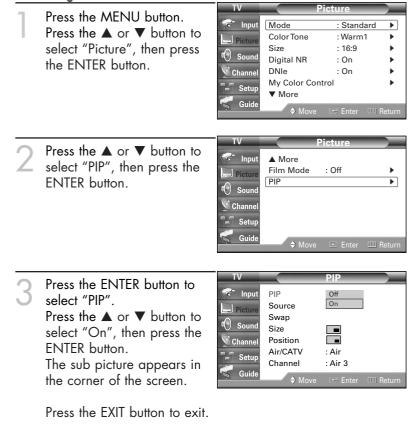


### **Viewing Picture-In-Picture**

One of the most best features of your TV is the Picture-In-Picture (PIP) feature. The advanced PIP system allows you to watch two different pictures at once, even if you don't have a VCR or DVD connected to your TV.



#### Activating the PIP



### Alternate method

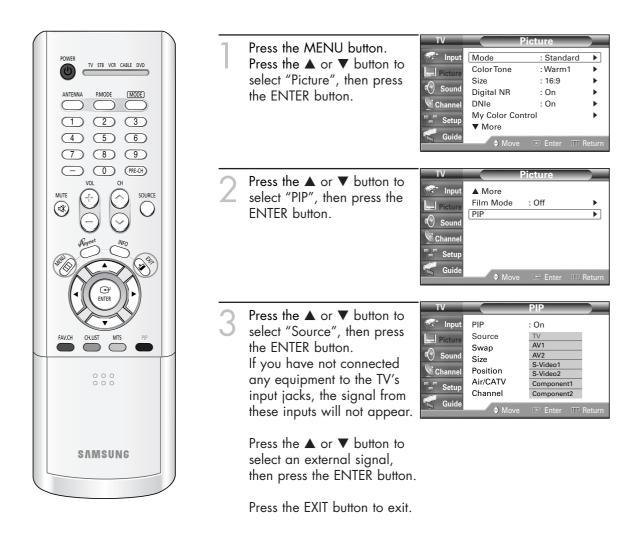
Press the PIP button on the remote control repeatedly to activate or deactivate the PIP.

### **NOTES**

- This feature doesn't function when the "V-Chip" is active.
- If you turn the TV off while watching and turn it on again, then the mode will return to normal video.
- Digital broadcasting is not available in PIP.

### Selecting an External Source

You can use PIP to view a signal from an external source, such as a VCR.

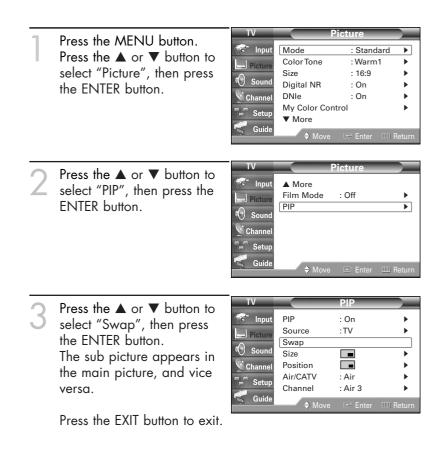


### NOTE

• For more information about external signals, see "Viewing an External Signal Source" (See page 44). If you select "TV", the sub picture will be the same as the main picture.

### Swapping the Sub Picture and Main Picture





### NOTE

• SWAP is not available when the Main picture is a Digital broadcast.

### Changing the Size of the Sub Picture



1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV Input Picture Sound Channel Setup Guide	F Mode Color Tone Size Digital NR DNIe My Color Con ▼ More ♦ Move		
2	Press the ▲ or ▼ button to select "PIP", then press the ENTER button.	TV Input Picture Sound Channel Setup Guide	A More Film Mode PIP ♦ Move	Picture : Off ⊡ Enter Ⅲ	► ► Return
3	Press the ▲ or ▼ button to select "Size", then press the ENTER button. Press the ▲ or ▼ button to select a size you want, then press the ENTER button.	TV Control Input Picture Control Input Channel Channel Channel Channel Channel Channel Channel Channel Channel	PIP Source Swap Size Position Air/CATV Channel Avove	PIP : On : TV	Return

Press the EXIT button to exit.

### Changing the Location of the Sub Picture



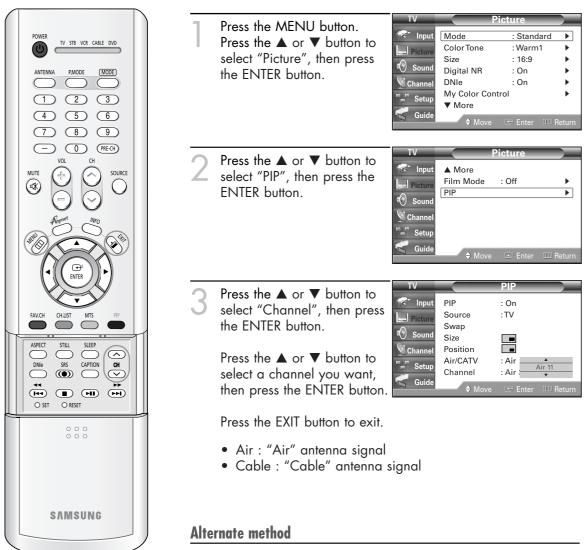
		TV		Picture	
	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	<ul> <li>Input</li> <li>Picture</li> <li>Sound</li> <li>Channel</li> <li>Setup</li> <li>Guide</li> </ul>	Mode Color Tone Size Digital NR DNIe My Color Cor ▼ More ♦ Move	: Standa : Warm1 : 16:9 : On : On ttrol ⊕ Enter	
2	Press the ▲ or ▼ button to select "PIP", then press the ENTER button.	TV Carlor Picture Sound Channel	Film Mode PIP	Picture : Off	> >
		Guide	⇒ Move	🖃 Enter	IIII Return
3	Press the ▲ or ▼ button to select "Position", then press the ENTER button.	TV	PIP Source Swap Size	PIP : On : TV	
Press the ▲ or ▼ button to select a position you want,	Channel Setup Guide	Position Air/CATV Channel $\Rightarrow$ Move	Enter	III Return	
	Press the EXIT button to exit.				

#### NOTE

• The Double (  $\blacksquare$  ,  $\blacksquare$  ) mode cannot be selected in Position.

### Changing the Channel of the Sub Picture

After you set the signal source (air or cable) of the sub picture, it is easy to change channels.

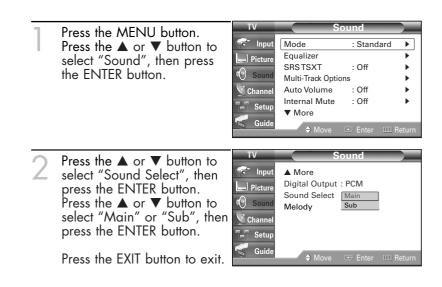


Press the CH  $\land$  or CH  $\checkmark$  button under the cover of the remote control to change the sub picture channels while PIP is on.

## Selecting the Sound Source

You can use this feature to hear sound from the main or sub (PIP) picture.





### **Freezing the Picture**



Press the STILL button to freeze a moving picture. (Normal sound will still be heard.)

Press again to cancel.

### NOTE

• In the PIP mode, the main and sub pictures are stilled at the same time.

### Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".



1	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	TV Picture Sound Channel Setup Guide	Language       : English         Time       +         V-Chip       +         Caption       +         Menu Transparency       : Medium         Blue Screen       : Off         ♥ More       +         ♦ Move       :: Enter       : Return
2	Press the ▲ or ▼ button to select "Blue Screen", then press the ENTER button.	TV Picture Sound Channel Setup Guide	Setup         Language       : English         Time       .         V-Chip       .         Caption       .         MenuTransparency : Medium       .         Blue Screen       : Off         ▼ More
3	Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button. Press the EXIT button to exit.	TV Input Picture Sound Channel Setup Guide	Setup         Language       : English         Time

# Sound Control

# **Sound Control**

## Sound Control

You can control and customize the sound levels and settings of the TV with the remote control.



#### Adjusting the Volume

Press the VOL+ or VOL– buttons to increase or decrease the volume.

#### **Using the MUTE Button**

At any time, you can temporarily cut off the sound. Press the MUTE button on the remote control. The message "Mute" is displayed and the sound cuts off.

To turn mute off, press the MUTE button again or press either the VOL+ or VOL– button.



The sound settings can be adjusted to suit your personal preference. (Alternatively, you can use one of the automatic settings. See next page.)

Mute

- Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.
- Press the ▲ or ▼ button to select "Equalizer", then press the ENTER button.

Sound Channel Setup Guide	SRS TSXT Multi-Track Optic Auto Volume Internal Mute ▼ More	: Off : Off	► ► ►
τV		ound	
10		ouna	
🐨 Input	Mode	: Stand	ard 🕨
Picture	Equalizer		

Standard

: Off

: Off

: Off

►

•

•

Mode

Equalizer

SRSTSXT

Auto Volume

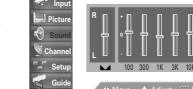
Internal Mute

▼ More

Multi-Track Options

Continued...

Press the ◄ or ➤ button to select a particular item to be changed. Press the ▲ or ▼ button to increase or decrease the selected frequency.



Press the EXIT button to exit.

#### **NOTES**

- If you make any changes to the equalizer settings, the sound mode is automatically switched to the custom mode.
- L/R Sound Balance Adjustment To adjust the sound balance of the L/R speakers.
- Bandwidth Adjustment (100, 300, 1K, 3K, 10K) To adjust the level of different bandwidth frequencies.

#### **Using Automatic Sound Settings**

Your TV has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. You can select "Custom", which automatically recalls your personalized sound settings.

Press the MENU button. Press the ▲ or ▼ button to select "Sound",	TV TV	Sou	ind : Standard	
then press the ENTER button.	Picture	Equalizer SRSTSXT Multi-Track Options	: Off	* *
	Channel	Auto Volume Internal Mute ▼ More	: Off : Off	* *
	Guide	🗢 Move 🛛 🖻	PEnter 🎟 F	Return

Press the ENTER button to select "Mode". Press the ▲ or ▼ button to select a particular item, then press the ENTER button.

Press the EXIT button to exit.

Input     Mode     Standard       Picture     Equalizer     Music       SRS TSXT     Movie       Multi-Track Options     Speech       Auto Volume     Urr       Internal Mute     : Off       ✓ More	TV	Sou	nd
A Move Enter III Return	Picture Control Channel	Equalizer SRSTSXT Multi-Track Options Auto Volume Internal Mute ▼ More	Music Movie Speech Custom : Off

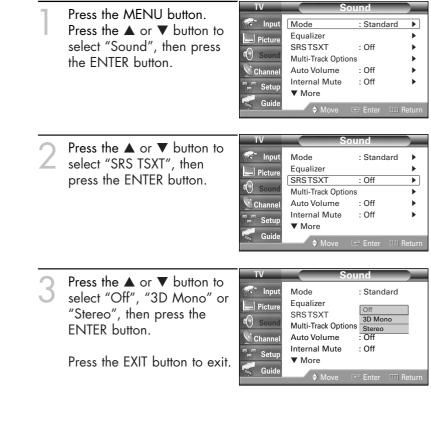
- Choose "Standard" for the standard factory settings.
- Choose "Music" when watching music videos or concerts.
- Choose "Movie" when watching movies.
- Choose "Speech" when watching a show that is mostly dialog (i.e., news).
- Choose "Custom" to recall your personalized settings.

# **Sound Control**

## Setting the SRS TSXT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. Trusurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.



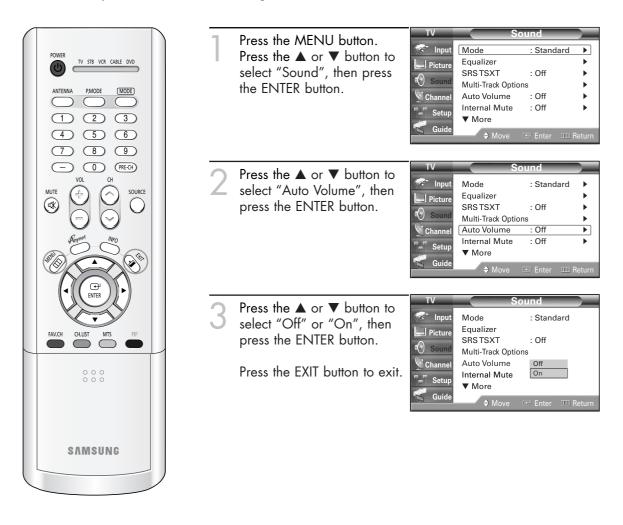


#### Alternate method

Press the SRS button on the remote control repeatedly to select one of the settings.

### Auto Volume

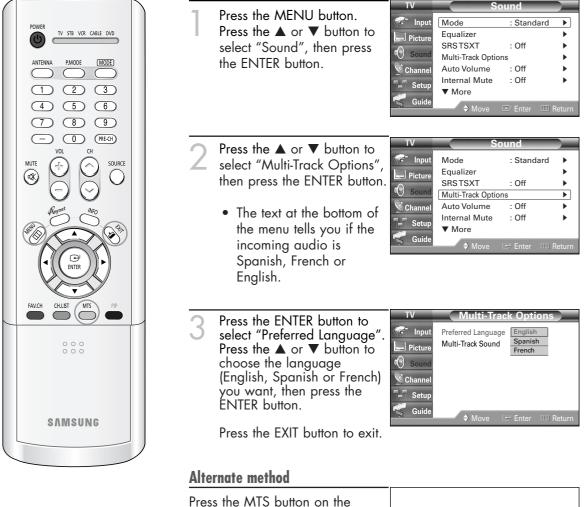
Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto Volume" automatically adjusts the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



# **Sound Control**

## Choosing a Multi-Channel Sound (MTS) track Digital

The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages). The availability of these additional "multitracks" depends upon the program.

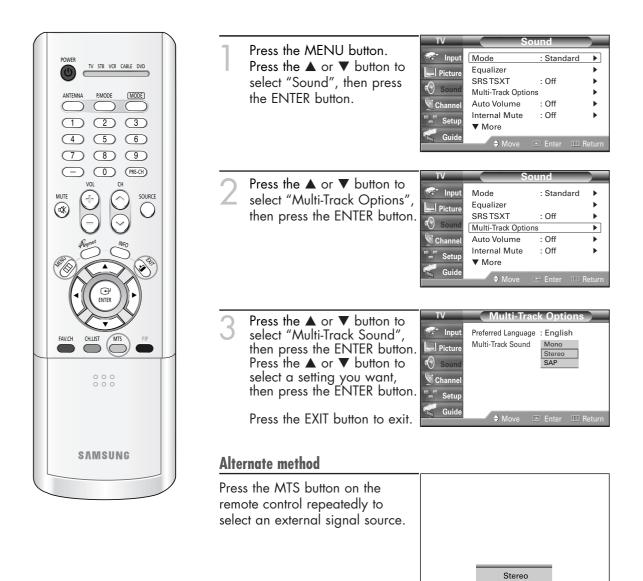


Press the MTS button on the remote control. You can listen in a language other than the favorite language by pressing the MTS button.

e 1.English

## Choosing a Multi-Channel Sound (MTS) track Analog

Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.



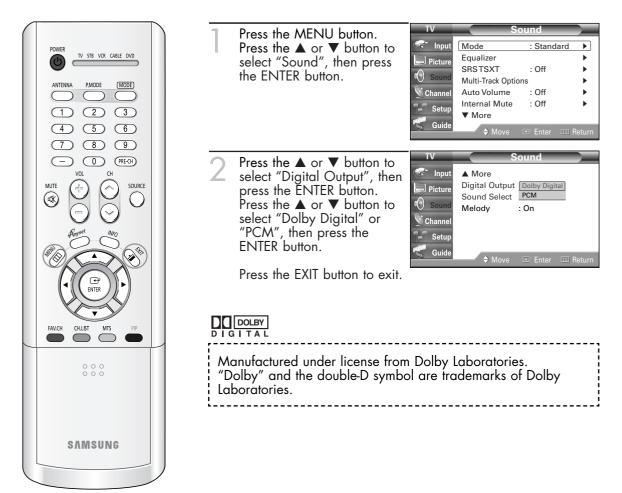
#### **NOTES**

- Choose "Mono" for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose "Stereo" for channels that are broadcasting in stereo.
- Choose "SAP" to listen to the Separate Audio Program, which is usually a foreign-language translation.

# **Sound Control**

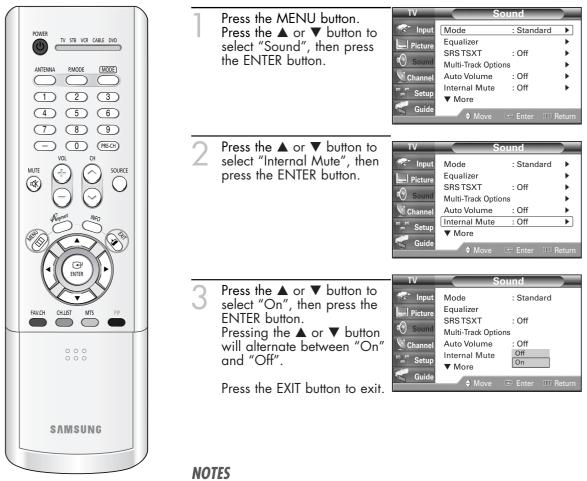
## Choosing a Digital Sound Format Digital

Digital sound can be output from the rear-panel connector on your TV. The digital sound output is an optical connector labeled "Optical Out". After connecting an optical digital-audio component, you must specify the transmission format (Dolby or PCM, as appropriate to your digital audio component). See the owner's manual of your Digital Audio component for further information.



## Selecting the Internal Mute

When using a device such as a Home Theater or Amplifier with external speakers, you can set Internal Mute to On to cut off sound from the TV's internal speakers.



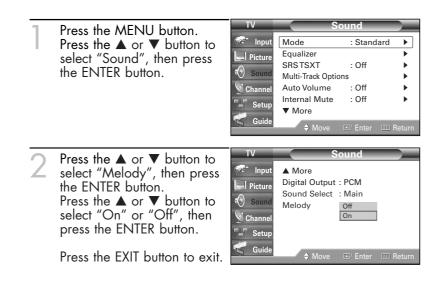
- The VOL +, VOL and Mute buttons do not operate when the Internal Mute is set to On.
- When Internal Mute is on, only Multi-Track Options and Melody menu are available.

# **Sound Control**

# Setting the On/Off Melody

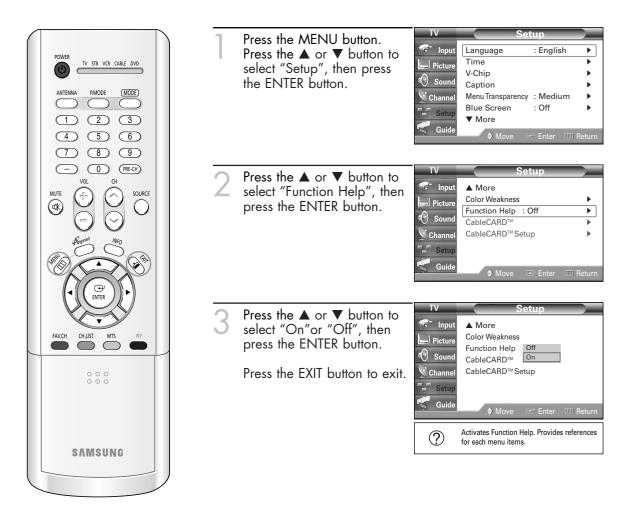
A melody sound can be set to come on when the TV is powered On or Off.





## Setting the Function Help

Displays Help on the menu functions.



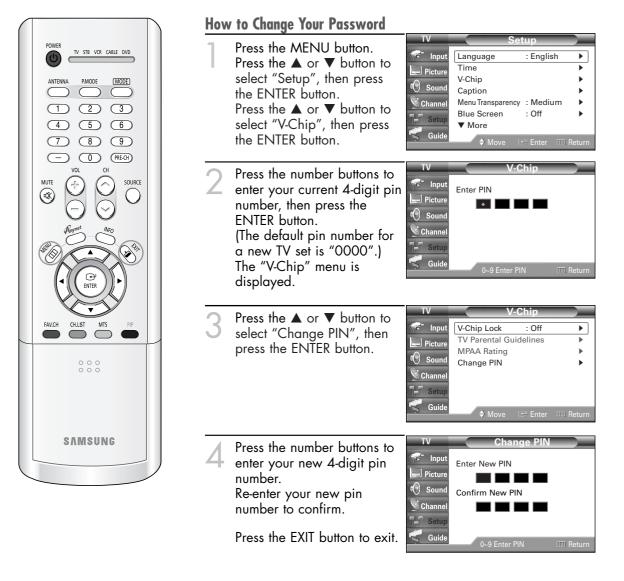
## Menu Transparency Level

Adjusts the transparency of the menu screen.



## Using the V-Chip

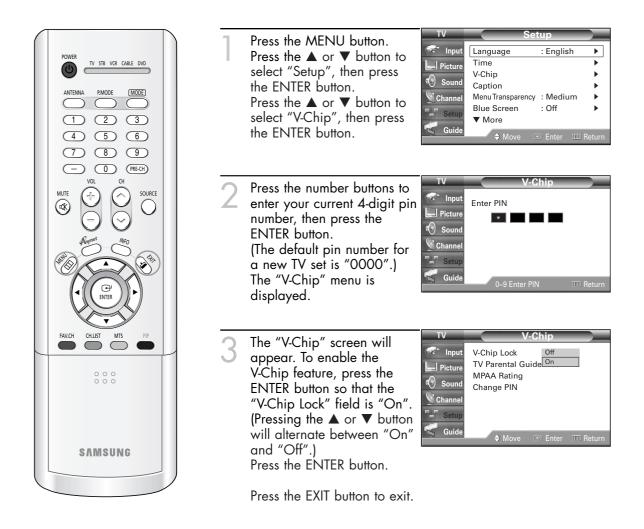
Access to channels and programs is controlled by a password (i.e., a 4-digit secret code that is defined by the user). The on-screen menu will instruct you to assign a password (you can change it later, if necessary).



#### **NOTES**

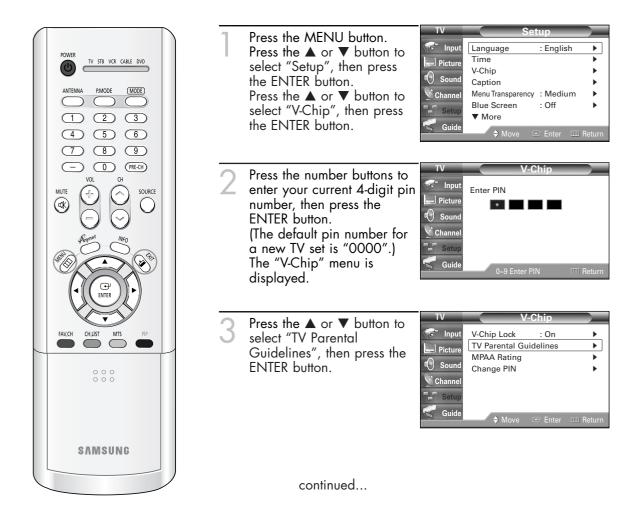
- The PIP doesn't function when the V-Chip is active.
- If you forget the pin number, press the remote control buttons in the following sequence, which resets the pin to 0-0-0-0: POWER (Off), MUTE, 8, 2, 4, POWER (On).
- The V-Chip function only works in RF ,AV mode and S-Video mode.

#### How to Enable/Disable the Rating Controls

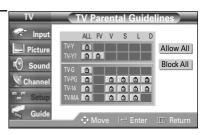


#### How to Set up Restrictions Using the "TV Parental Guidelines"

The parental restrictions can be set up using either of two methods: The "TV Parental Guidelines" or "MPAA Rating".



You can independently lock the TV ratings. The locked TV (FCC) ratings are indicated by the symbol "â". Press the ▲/▼/◀/► buttons and the ENTER button to activate the appropriate restrictions for TV (FCC) rating system.



#### NOTES

Allow All : Press to unlock all TV ratings.
Block All : Press to lock all

TV ratings.

Press the EXIT button to exit.

TV-14 : Viewers 14 and over

: Young children

TV-PG : Parent Guidance

TV-MA : Mature Audience

: Children 7 and over

: General audience

Fress the LATE builder to exit.

#### NOTES

TV-Y

TV-Y7

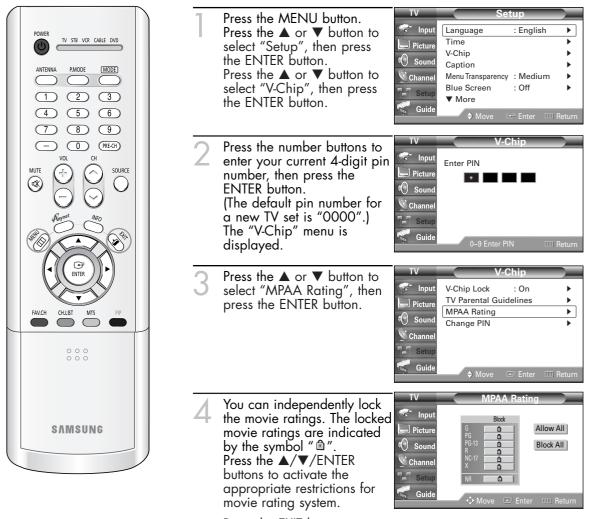
TV-G

- These categories consist of two separate groups: "TV-Y" and "TV-Y7" (young children through age 7), and "TV-G" through "TV-MA" (everybody else).
- The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV parental guidelines must be set up separately for each age group. (See page 91.)

#### How to Set up Restrictions Using the "MPAA Rating"

The Movie rating system uses the "MPAA" (Motion Picture Association of America) system, and its main application is for movies.

When the rating control is on, the TV will automatically block any programs that are coded with objectionable ratings (either "MPAA Rating" or "TV Parental Guidelines").



Press the EXIT button to exit.

#### NOTES

- Allow All : Press to unlock all movie ratings.
- Block All : Press to lock all movie ratings.

#### Important Notes About Parental Locks

Explanation of the MPAA and TV (FCC) Rating Systems:

#### TV (FCC) Age-Based Ratings

#### TV-MA

Mature audiences only. This program may contain mature themes, profane language, graphic violence and explicit sexual content.

#### TV-14

Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.

#### TV-PG

Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialog and situations.

#### TV-G

General audience. It contains little or no violence, no strong language, and little or no sexual dialog or situations.

#### **TV-Y7**

Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of seven.

#### TV-Y

All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages two – six.

#### TV (FCC) Content Category

- V Violence.
- **S** Sexual content.
- L Offensive language.
- D Sexually suggestive Dialog.
- **FV** Fantasy or cartoon violence.

#### **MPAA Rating System (Movies)**

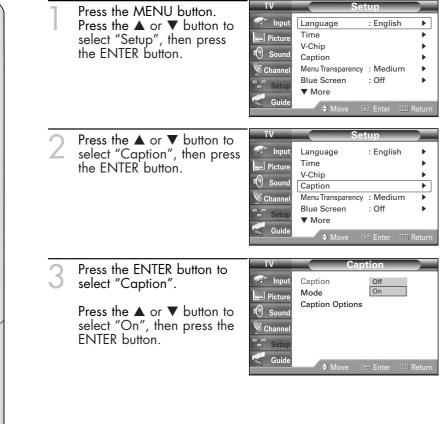
G General audience. No restriction. PG Children under 13 should be accompanied by an adult. **PG-13** Parental guidance suggested. Children under 13 should be accompanied by an adult. R Restricted. Viewers should be 17 or older. NC-17 Not classified. Viewers should be 17 or older. Х Adults only. NR Not rated.

- TV (FCC) ratings : The particular rating that you have selected will be locked (and indicated as a red "L" on a blue background). Also, all of the age-based ratings will be locked within the particular group (i.e., "group 1" or "group 2"). Suppose that the TV-G rating and all of its contents (V, S, L, and D) are locked. In that case, more restrictive ratings (TV-PG, TV-14, and TV-MA) and all of their contents (V, S, L, and D) are automatically locked as well.
- MPAA ratings : The particular rating that you have selected will be locked. In addition, more restrictive ratings will be locked as well.
- Neither TV (FCC) ratings nor MPAA ratings apply to news programs.

## Viewing Closed Captions (On-Screen Text Messages) Analog

The Analog Caption function operates in either analog RF channel mode or external signal mode. (Depending on the broadcasting signal, the Analog Caption function may operate on digital channels.)





continued...

Press the ▲ or ▼ button to select "Mode", then press the ENTER button. Press the ▲ or ▼ button to select submenu (CC1~CC4 or Text1~Text4) you want, then press the ENTER button.

Press the EXIT button to exit.

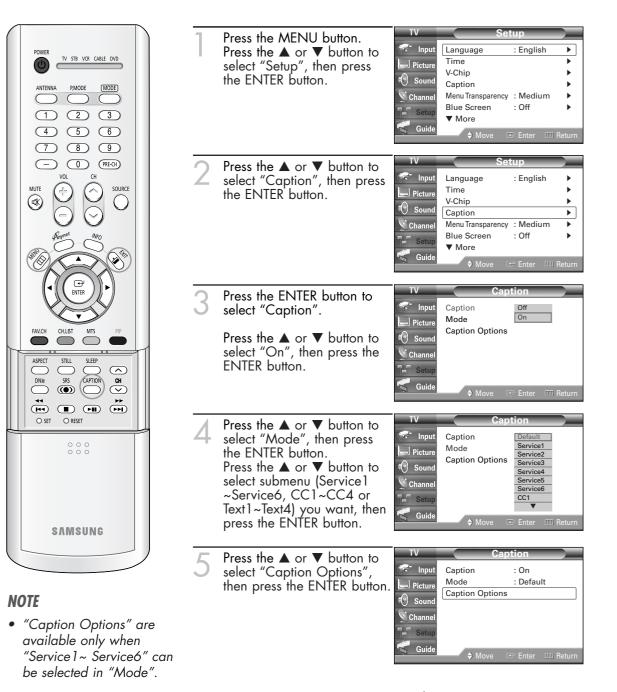


#### **NOTES**

- The default is "CC1".
  - CC1 : The Primary Synchronous Caption Service. These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.
  - CC2 : The Special NonSynchronous Use Captions. This channel carries data that is intended to augment information carried in the program.
  - CC3 : Secondary Synchronous Caption Service. Alternate program-related caption data, typically second language captions.
  - CC4 : Special Non-Synchronous Use Captions. Similar to CC2.
  - Text1 : First Text Service. This may be various non-program related data.
  - Text2 : Second Text Service. Additional data, usually not program related.
  - Text3/Text4 : Third and Fourth Text Services. These data channels should be used only if Text1 and Text2 are not sufficient.
- The Caption feature only works in RF, AV and S-Video mode.
- The availability of captions depends on the program being broadcast.

### Viewing Closed Captions (On-Screen Text Messages) Digital

The Digital Captions function operates on digital channels.



continued...

Press the ▲ or ▼ button to select "Size", then press the ENTER button. Press the ▲ or ▼ button to select one you want, then press the ENTER button. Set other listed options below using the same method as above. Press the EXIT button to exit.

TV	Caption	Options	
🗧 Input	Size	: Default	►
Picture	Font Style	: Default	•
0	Foreground Color	: Default	•
🖤 Sound	Background Color	: Default	•
Channel	Foreground Opacit	y: Default	•
Cohun	Background Opacit	ty: Default	•
Setup	Return to Default	t	
🗧 Guide	♦ Move	🗄 Enter 💷	) Return

#### NOTE

• The availability of captions depends on the program being broadcast.

#### Size

This option consists of "Default", "Small", "Standard", and "Large". The default is "Standard".

#### Font Style

This option consists of "Default", "StyleO ~ Style 7". You can change the font you want. The default is "Style O".

#### Foreground Color

This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan".

You can change the color of the letter. The default is "White".

#### **Background Color**

This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan". You can change the background color of the caption. The default is "Black".

#### **Foreground Opacity**

This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the opacity of the letter.

#### **Background Opacity**

This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the background opacity of the caption.

#### **Return to Default**

This option sets each of "Size", "Font Style", "Foreground Color", "Background Color", "Foreground Opacity", and "Background Opacity" Color to its default.

#### Alternate method

Press the CAPTION button on the remote control repeatedly to select "On" or "Off".

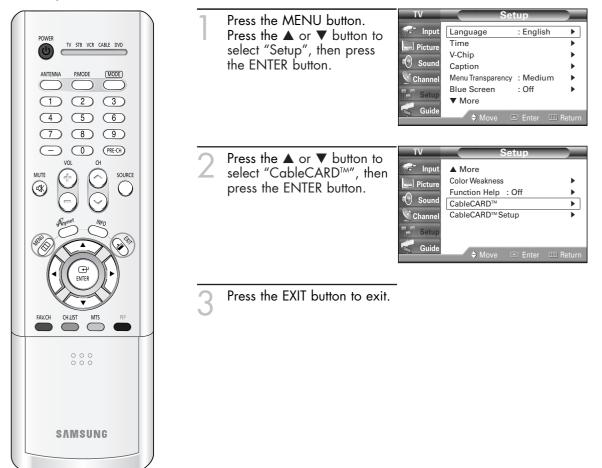


# Using the CableCARD

This menu works with a CableCARD provided by a local cable service provider. Prior to accessing this menu, a CableCARD should be connected to the rear panel of the TV. For detailed connection instructions refer to the "Connecting CableCARD" section on page 24 of this manual.

#### **Displaying CableCARD related information**

To access information on Status, Pairing, Network Setup of the CableCARD provided by the service provider in CableCARD menu.

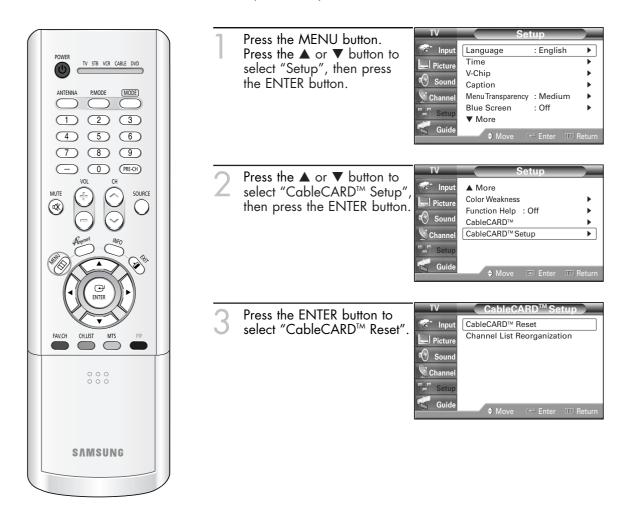


# Using the CableCARD Setup Function

Sets up relevant CableCARD options.

#### CableCARD Reset

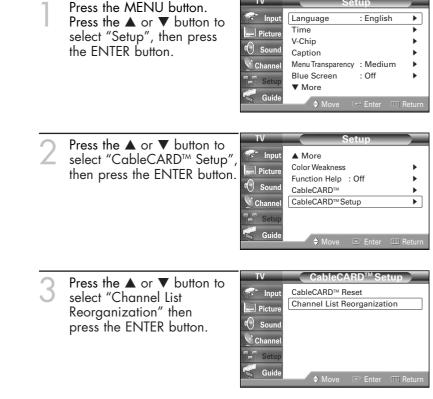
Resets CableCARD when the channels provided by CableCARD are not available.



#### **Channel List Reorganization**

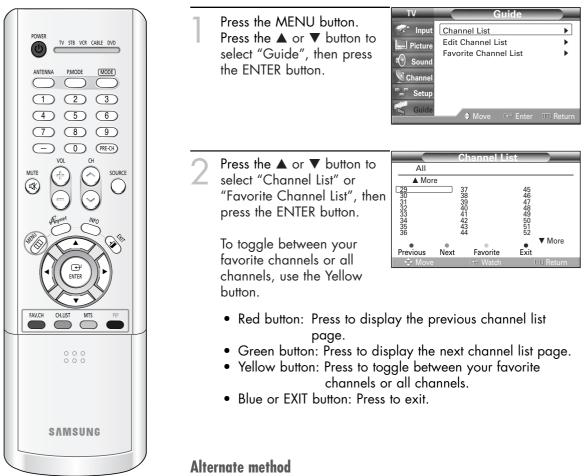
Deletes and reorganizes the channel list provided by CableCARD. This feature should be used if you change or upgrade your CableCARD service.





## Using the Guide

You can display a list of all channels or your favorite channels.



Press the CH.LIST button on the remote control to display a list of channels.



#### **Adding and Erasing Channels**



Press the MENU button. Channel List 🐔 Input Press the  $\blacktriangle$  or  $\blacktriangledown$  button to Edit Channel List ► Pictur select "Guide", then press Favorite Channel List 🕑 Sou the ENTER button. Chann Setu Press the  $\blacktriangle$  or  $\blacktriangledown$  button to Channel List ► select "Edit Channel List", Pictur Edit Channel List then press the ENTER button. Favorite Channel List 🕑 Sour Cha Set Press the  $\blacktriangle$  or  $\blacktriangledown$  button to Add/Delete change channels you want 6 8 10 12 to add or delete. Repeatedly pressing ENTER button will alternate between "Add" and "Delete". Add All Delete All • Yellow button : Press to add all channels • Blue button : Press to delete all channels

Press the MENU button to

exit.

# Appendix

# Appendix

# Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest Samsung authorized service center.

Possible Solution
Try another channel. Adjust the antenna. Check all wire connections.
Try another channel. Adjust the antenna. Make sure the MUTE button is off.
Try another channel. Press the SOURCE button. Make sure the TV is plugged in. Check the antenna connections. Check that the Mute feature is off.
Make sure the program is broadcasted in color. Adjust the picture settings.
Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.
Unplug the TV for 30 seconds, then try operating it again.
Press the MODE button to put your remote control into TV mode. Make sure the remote has batteries.
Make sure the wall outlet is working. Make sure the TV is plugged in. Make sure the remote has batteries.
Please check the digital signal strength and input antenna.
<ul> <li>The visual qualities of digital channels may vary depending on the original production method (analog or digital).</li> <li>→ Classification by the information displayed when switching channels.</li> <li>→ If the original production method is digital: High visual quality program.</li> <li>→ If the original production method is analog: The digital program displayed on the screen is originally an analog program which has been converted. The visual quality is of an SD grade.</li> </ul>
The HD caption that appears when switching channels or when pressing the Information button on the remote control means the selected channel is simply a digital channel. If the broadcasting station converts an analog signal into digital and transmits the signal, the visual quality may not be perfect. (Applied to Set Top Box built-in model only.)

• The display panel used for the DLP TV is composed of many tiny pixels. These pixels may occasionally appear on the screen.

# **Cleaning and Maintaining Your TV**

With proper care, your TV will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

#### **Placement**

- Do not put the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

#### Liquids

• Do not handle liquids near or on the TV. Liquids that spill into it can cause serious damage.

#### Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.
- This DLP TV projects the image onto a large screen by applying an optical system. If you place the TV set face down, it might cause a problem because dirt, or some other contaminant may become attached to the inside of the TV set.

#### **Temperature**

• If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

## Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

### **Specifications**

Model	SP50L7HD
Voltage	AC 127V~
Frequency of Operation	60Hz
Dimensions (W x D x H)	53.58 x 20.47 x 54.64 inches 1361 x 520 x 1388 mm
Weight	57.9 Kg / 127.65 lbs



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